

time voice/data exchange for command and control, relative navigation, and Precise Position Location Identification (PPLI), providing Link-16 type capabilities. The system contains both Secret and Unclassified elements and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret.

g. The F-35 Autonomic Logistics and Global Support (ALGS) includes both Secret and Unclassified elements. It provides a fully integrated logistics management solution. ALGS integrates a number of functional areas, including supply chain management, repair, support equipment, engine support, and training. The ALGS infrastructure employs a state-of-the-art information system that provides real-time, decision-worthy information for sustainment decisions by flight line personnel. Prognostic health monitoring technology is integrated with the air system and is crucial to the predictive maintenance of vital components.

h. The F-35 Autonomic Logistics Information System (ALIS) includes both Secret and Unclassified elements. The ALIS provides an intelligent information infrastructure that binds all of the key concepts of ALGS into an effective support system. ALIS establishes the appropriate interfaces among the F-35 Air Vehicle, the warfighter, the training system, government information technology (IT) systems, JSF operations, and supporting commercial enterprise systems. Additionally, ALIS provides a comprehensive tool for data collection and analysis, decision support, and action tracking.

i. The F-35 Training System includes both Secret and unclassified elements. The Training System includes several types of training devices, to provide for integrated training of both pilots and maintainers. The pilot training devices include a Full Mission Simulator (FMS) and Deployable Mission Rehearsal Trainer (DMRT). The maintainer training devices include an Aircraft Systems Maintenance Trainer (ASMT), Ejection System Maintenance Trainer (ESMT), and Weapons Loading Trainer (WLT). The F-35 Training System can be integrated, where both pilots and maintainers learn in the same Integrated Training Center (ITC). Alternatively, the pilots and maintainers can train in separate facilities (Pilot Training Center and Maintenance Training Center).

j. Weapons employment capability is Secret and contains technology representing the latest state-of-the-art in

several areas. Information on performance and inherent vulnerabilities is Secret. Software (object code) is classified Secret. Sensitive elements include co-operative targeting.

k. Other Subsystems, Features, and Capabilities:

(1) The Low Observable Air Frame is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is Secret. Sensitive elements include: The Radar Cross Section and its corresponding plots, construction materials and fabrication.

(2) The Integrated Core Processor (ICP) Central Computer is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is Secret. Software (object code) is classified Secret. Sensitive elements include: F-35 Integrated Core Processor utilizing Commercial Off the Shelf (COTS) Hardware and Module Design to maximize growth and allow for efficient Management of DMS and Technology Insertion), if additional processing is needed, a second ICP will be installed in the space reserved for that purpose, more than doubling the current throughput and memory capacity.

(3) The F-35 Helmet Mounted Display System (HMDS) is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is Secret. Software (object code) is Secret. Sensitive elements include: HMDS consists of the Display Management Computer-Helmet, a helmet shell/display module, a quick disconnect integrated as part of the ejection seat, helmet trackers and tracker processing, day- and night-vision camera functions, and dedicated system/graphics processing. The HMDS provides a fully sunlight readable, bi-ocular display presentation of aircraft information projected onto the pilot's helmet visor. The use of a night vision camera integrated into the helmet eliminates the need for separate Night Vision Goggles (NVG). The camera video is integrated with EO and IR imaging inputs and displayed on the pilot's visor to provide a comprehensive night operational capability.

(4) The Pilot Life Support System is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is Secret. Software

(object code) is Secret. Sensitive elements include: A measure of Pilot Chemical, Biological, and Radiological Protection through use of On Board Oxygen Generating System (OBOGS); and an escape system that provides additional protection to the pilot. OBOGS takes the Power and Thermal Management System (PTMS) air and enriches it by removing gases (mainly nitrogen) by adsorption, thereby increasing the concentration of oxygen in the product gas and supplying breathable air to the pilot.

(5) The Off-Board Mission Support System is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is Secret. Software (object code) is Secret. Sensitive elements include: Mission planning, mission briefing, maintenance/intelligence/tactical debriefing, sensor/algorithm planning, EW system reprogramming, data debrief, etc.

1. Publications: Manuals are considered Secret, special access required, as they contain information on aircraft/system performance and inherent vulnerabilities

2. The JSF Reprogramming Center is classified Secret and contains technology representing the latest state-of-the-art in several areas. This hardware/software facility provides a means to update JSF electronic warfare databases. Sensitive elements include: EW software databases and tools to modify these databases.

3. If a technologically advanced adversary were to obtain knowledge of the specific hardware and software elements, the information could be used to develop countermeasures which might reduce weapon system effectiveness or be used in the development of a system with similar or advanced capabilities.

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DEPARTMENT OF DEFENSE

Office of the Secretary

[Transmittal Nos. 12-16]

36(b)(1) Arms Sales Notification

AGENCY: Defense Security Cooperation Agency, Department of Defense.

ACTION: Notice.

SUMMARY: The Department of Defense is publishing the unclassified text of a section 36(b)(1) arms sales notification. This is published to fulfill the

requirements of section 155 of Public Law 104-164 dated July 21, 1996.

FOR FURTHER INFORMATION CONTACT: Ms. B. English, DSCA/DBO/CFM, (703) 601-3740.

The following is a copy of a letter to the Speaker of the House of Representatives, Transmittals 12-16 with attached transmittal, policy justification, and Sensitivity of Technology.

Dated: May 4, 2012.
Aaron Siegel,
Alternate OSD Federal Register Liaison Officer, Department of Defense.
BILLING CODE 5001-06-P



DEFENSE SECURITY COOPERATION AGENCY
201 12TH STREET SOUTH, STE 203
ARLINGTON, VA 22202-5408

APR 30 2012

The Honorable John A. Boehner
Speaker of the House
U.S. House of Representatives
Washington, DC 20515

Dear Mr. Speaker:

Pursuant to the reporting requirements of Section 36(b)(1) of the Arms Export Control Act, as amended, we are forwarding herewith Transmittal No. 12-16, concerning the Department of the Air Force's proposed Letter(s) of Offer and Acceptance to Singapore for defense articles and services estimated to cost \$435 million. After this letter is delivered to your office, we plan to issue a press statement to notify the public of this proposed sale.

Sincerely,

William E. Landay III
Vice Admiral, USN
Director

Enclosures:

- 1. Transmittal
- 2. Policy Justification
- 3. Sensitivity of Technology



BILLING CODE 5001-06-C

Transmittal No. 12-16
Notice of Proposed Issuance of Letter of Offer Pursuant to Section 36(b)(1) of the Arms Export Control Act, as amended

(ii) *Total Estimated Value:*

Major Defense Equipment *	\$19 million.
Other	416 million.

(i) *Prospective Purchaser:* Singapore.

Total 435 million.

* as defined in Section 47(6) of the Arms Export Control Act.

(iii) *Description and Quantity or Quantities of Articles or Services under Consideration for Purchase:* Follow-on support and services for Singapore's Continental United States (CONUS) detachment PEACE CARVIN V (F-15SG) based at Mountain Home Air Force Base (AFB) for a five-year period. MDE includes: 40 GBU-10 PAVEWAY II Laser Guided Bomb Units, 40 MXU-651/B Air Foil Groups, 84 GBU-12 PAVEWAY II Laser Guided Bomb Units, 84 MXU-650/Bs Air Foil Groups, 124 MAU-169L/Bs Guidance Control Units, and 3 P5 Combat Training System Pods. Also included: Commercial vehicles, publications and technical documentation, tactics manuals and academic instruction, clothing and individual equipment, execution and support of CONUS exercise deployments, airlift and aerial refueling, support equipment, spare and repair parts, repair and return, personnel training and training equipment, U.S. Government and contractor technical and logistics support services, and other related elements of logistical and program support.

(iv) *Military Department:* Air Force (NDA).

(v) *Prior Related Cases, if any:* FMS case NAS-\$187M-25Mar08, FMS case SAA-\$192M-24Feb06, FMS case SAC-\$98M-30Oct09.

(vi) *Sales Commission, Fee, etc., Paid, Offered, or Agreed To Be Paid:* None.

(vii) *Sensitivity of Technology Contained in the Defense Article or Defense Services Proposed To Be Sold:* None.

(viii) *Date Report Delivered to Congress:* 30 April 2012.

Policy Justification

Singapore—F-15SG Pilot Training

The Government of Singapore has requested a possible sale of follow-on support and services for Singapore's Continental United States (CONUS) detachment PEACE CARVIN V (F-15SG) based at Mountain Home Air Force Base (AFB) for a five-year period. MDE includes: 40 GBU-10 PAVEWAY II Laser Guided Bomb Units, 40 MXU-651/B Air Foil Groups, 84 GBU-12 PAVEWAY II Laser Guided Bomb Units, 84 MXU-650/Bs Air Foil Groups, 124 MAU-169L/Bs Guidance Control Units, and 3 P5 Combat Training System Pods. Also included: Commercial vehicles, publications and technical documentation, tactics manuals and academic instruction, clothing and individual equipment, execution and

support of CONUS exercise deployments, airlift and aerial refueling, support equipment, spare and repair parts, repair and return, personnel training and training equipment, U.S. Government and contractor technical and logistics support services, and other related elements of logistical and program support. The estimated cost is \$435 million.

This proposed sale will contribute to the foreign policy and national security of the United States by helping to improve the security of a friendly country that has been, and continues to be, an important force for economic progress in Southeast Asia.

Singapore needs this training and munitions to support its F-15 aircraft. This program will enable Singapore to develop mission-ready and experienced pilots to support its current and future F-15 aircraft inventory. The well-established pilot proficiency training program at Mountain Home Air Force Base will support professional interaction and enhance operational interoperability with U.S. forces.

The proposed sale of this equipment and support will not alter the basic military balance in the region.

There is no prime contractor involved in this proposed sale. There are no known offset agreements proposed in connection with this potential sale.

Implementation of this proposed sale will not require the assignment of any additional U.S. Government and contractor representatives to Singapore.

There will be no adverse impact on U.S. defense readiness as a result of this proposed sale.

Transmittal No. 12-16

Notice of Proposed Issuance of Letter of Offer Pursuant to Section 36(b)(1) of the Arms Export Control Act

Annex

Item No. vii

(vii) *Sensitivity of Technology:*

1. The GBU-10/12 PAVEWAY II is a laser guidance kit and tail assembly for general purpose bombs. The laser seeker allows the user to select a unique code for use in the multi-laser environment and reduce the probability of interference among multiple weapons. The hardware is Unclassified and the ballistics is Confidential.

2. If a technologically advanced adversary were to obtain knowledge of the specific hardware and software elements, the information could be used to develop countermeasures which might reduce weapon system effectiveness or be used in the

development of a system with similar or advanced capabilities.

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DEPARTMENT OF DEFENSE

Office of the Secretary

Renewal of Threat Reduction Advisory Committee

AGENCY: DoD.

ACTION: Renewal of Federal Advisory Committee.

SUMMARY: Under the provisions of the Federal Advisory Committee Act of 1972 (5 U.S.C. Appendix), the Government in the Sunshine Act of 1976 (5 U.S.C. 552b), and 41 CFR 102-3.50(d), the Department of Defense gives notice that it is renewing the charter for the Threat Reduction Advisory Committee (hereafter referred to as "the Committee").

The Committee is a discretionary federal advisory committee that shall provide the Secretary of Defense, through the Under Secretary of Defense (Acquisition, Technology, and Logistics) and the Assistant Secretary of Defense (Nuclear, Chemical and Biological Defense Programs), independent advice and recommendations on:

a. Reducing the threat to the United States, its military forces, and its allies and partners posed by nuclear, biological, chemical, conventional and special weapons;

b. Combating weapons of mass destruction to include non-proliferation, counterproliferation, and consequence management;

c. Nuclear deterrence transformation, nuclear material lockdown and accountability;

d. Nuclear weapons effects;

e. The nexus of counterproliferation and counter WMD terrorism; and

f. Other Acquisition, Technology, and Logistics; Nuclear, Chemical and Biological Defense; and Defense Threat Reduction Agency mission-related matters.

The Committee shall be composed of not more than 30 committee members who are eminent authorities in the fields of national defense, geopolitical and national security affairs, weapons of mass destruction, nuclear physics, chemistry, and biology.

The Committee members are appointed by the Secretary of Defense, and their appointments will be renewed on an annual basis. The Committee members who are not full-time or permanent part-time federal officers or